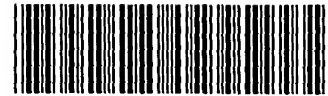


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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,108

DATE: 02/04/2003

TIME: 13:48:45

Input Set : A:\33834F.txt

Output Set: N:\CRF4\02042003\J032108.raw

3 <110> APPLICANT: Osslund, Timothy
5 <120> TITLE OF INVENTION: G-CSF ANALOG COMPOSITIONS AND METHODS
7 <130> FILE REFERENCE: 01017/38834F
9 <140> CURRENT APPLICATION NUMBER: US 10/032,108
C--> 10 <141> CURRENT FILING DATE: 2003-01-31
12 <150> PRIOR APPLICATION NUMBER: US 09/754,532
13 <151> PRIOR FILING DATE: 2001-01-03
15 <150> PRIOR APPLICATION NUMBER: US 09/304,186
16 <151> PRIOR FILING DATE: 1999-05-03
18 <150> PRIOR APPLICATION NUMBER: US 09/027,508
19 <151> PRIOR FILING DATE: 1998-02-20
21 <150> PRIOR APPLICATION NUMBER: US 08/956,812
22 <151> PRIOR FILING DATE: 1987-10-23
24 <150> PRIOR APPLICATION NUMBER: US 08/448,716
25 <151> PRIOR FILING DATE: 1995-05-24
27 <150> PRIOR APPLICATION NUMBER: US 08/010,099
28 <151> PRIOR FILING DATE: 1993-01-28
30 <160> NUMBER OF SEQ ID NOS: 110
32 <170> SOFTWARE: Patent-In ver. 3.1
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 565
36 <212> TYPE: DNA
37 <213> ORGANISM: Homo sapien
39 <220> FEATURE:
40 <221> NAME/KEY: CDS
41 <223> OTHER INFORMATION: 30..554
43 <400> SEQUENCE: 1
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46 Met Thr Pro Leu Gly Pro Ala Ser
47 1 5
49 tct ctg ccg caa agc ttt ctg ctg aaa tgt ctg gaa cag gtt cgt aaa 101
50 Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu Glu Gln Val Arg Lys
51 10 15 20
53 atc cag ggt gac ggt gct gca ctg caa gaa aaa ctg tgc gct act tac 149
54 Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr
55 25 30 35 40
57 aaa ctg tgc cat ccg gaa gaa ctg gta ctg ctg ggt cat tct ctt ggg 197
58 Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly
59 45 50 55
61 atc ccg tgg gct ccg ctg tct tct tgc cca tct caa gct ctt cag ctg 245
62 Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu
63 60 65 70
65 gct ggt tgt ctg tct caa ctg cat tct ggt ctg ttc ctg tat cag ggt 293

RAW SEQUENCE LISTING

DATE: 02/04/2003

PATENT APPLICATION: US/10/032,108

TIME: 13:48:45

Input Set : A:\33834F.txt

Output Set: N:\CRF4\02042003\J032108.raw

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66 Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly
67          75          80          85
69 ctt ctg caa gct ctg gaa ggt atc tct ccg gaa ctg ggt ccg act ctg      341
70 Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu
71          90          95          100
73 gac act ctg cag cta gat gta gct gac ttt gct act act att tgg caa      389
74 Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln
75 105          110          115          120
77 cag atg gaa gag ctc ggt atg gca cca gct ctg caa ccg act caa ggt      437
78 Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly
79          125          130          135
81 gct atg ccg gca ttc gct tct gca ttc cag cgt cgt gca gga ggt gta      485
82 Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val
83          140          145          150
85 ctg gtt gct tct cat ctg caa tct ttc ctg gaa gta tct tac cgt gtt      533
86 Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val
87          155          160          165
89 ctg cgt cat ctg gct cag ccg taatagaatt c      565
90 Leu Arg His Leu Ala Gln Pro
91          170          175
94 <210> SEQ ID NO: 2
95 <211> LENGTH: 175
96 <212> TYPE: PRT
97 <213> ORGANISM: Homo sapien
99 <400> SEQUENCE: 2
100 Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu
101 1          5          10          15
103 Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu
104          20          25          30
106 Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
107          35          40          45
109 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
110          50          55          60
112 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His
113 65          70          75          80
115 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
116          85          90          95
118 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
119          100          105          110
121 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
122          115          120          125
124 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
125          130          135          140
128 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser
129 145          150          155          160
131 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
132          165          170          175
134 <210> SEQ ID NO: 3
135 <211> LENGTH: 24
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/032,108

DATE: 02/04/2003
TIME: 13:48:45

Input Set : A:\33834F.txt
Output Set: N:\CRF4\02042003\J032108.raw

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137 <213> ORGANISM: Artificial sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Synthetic primer
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146 <210> SEQ ID NO: 4
147 <211> LENGTH: 23
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Synthetic primer
154 <400> SEQUENCE: 4
155 acaggttcgt cgtatccagg gtg                23
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158 <211> LENGTH: 23
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Synthetic primer
165 <400> SEQUENCE: 5
166 cactgcaaga acgtctgtgc gtc                23
168 <210> SEQ ID NO: 6
169 <211> LENGTH: 23
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Synthetic primer
176 <400> SEQUENCE: 6
177 cgctacttac cgtctgtgcc atc                23
179 <210> SEQ ID NO: 7
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Synthetic primer
187 <400> SEQUENCE: 7
189 ctttctgctg cgttgtctgg aaca                24
192 <210> SEQ ID NO: 8
193 <211> LENGTH: 23
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Synthetic primer
200 <400> SEQUENCE: 8
201 acaggttcgt cgtatccagg gtg                23
203 <210> SEQ ID NO: 9
204 <211> LENGTH: 23
205 <212> TYPE: DNA
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/032,108

DATE: 02/04/2003
TIME: 13:48:46

Input Set : A:\33834F.txt
Output Set: N:\CRF4\02042003\J032108.raw

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214 <210> SEQ ID NO: 10
215 <211> LENGTH: 24
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Synthetic primer
222 <400> SEQUENCE: 10
223 ctttctgctg cgttgtctgg aaca 24
225 <210> SEQ ID NO: 11
226 <211> LENGTH: 23
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Synthetic primer
233 <400> SEQUENCE: 11
234 acaggttcgt cgtatccagg gtg 23
236 <210> SEQ ID NO: 12
237 <211> LENGTH: 23
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Synthetic primer
244 <400> SEQUENCE: 12
245 cgctacttac cgtctgtccc atc 23
248 <210> SEQ ID NO: 13
249 <211> LENGTH: 24
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic primer
256 <400> SEQUENCE: 13
257 ctttctgctg cgttgtctgg aaca 24
259 <210> SEQ ID NO: 14
260 <211> LENGTH: 23
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic primer
267 <400> SEQUENCE: 14
268 cactgcaaga acgtctgtgc gct 23
270 <210> SEQ ID NO: 15
271 <211> LENGTH: 23
272 <212> TYPE: DNA
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RAW SEQUENCE LISTING

DATE: 02/04/2003

PATENT APPLICATION: US/10/032,108

TIME: 13:48:46

Input Set : A:\33834F.txt

Output Set: N:\CRF4\02042003\J032108.raw

275 <220> FEATURE:
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278 <400> SEQUENCE: 15
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281 <210> SEQ ID NO: 16
282 <211> LENGTH: 23
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Synthetic primer
289 <400> SEQUENCE: 16
290 acaggttcgt cgtatccagg gtg 23
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293 <211> LENGTH: 23
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Synthetic primer
300 <400> SEQUENCE: 17
302 cactgcaaga acgtctgtgc gct 23
304 <210> SEQ ID NO: 18
305 <211> LENGTH: 23
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Synthetic primer
312 <400> SEQUENCE: 18
313 cgctacttac cgtctgtgcc atc 23
315 <210> SEQ ID NO: 19
316 <211> LENGTH: 24
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic primer
323 <400> SEQUENCE: 19
324 ctttctgctg cgttgtctgg aaca 24
326 <210> SEQ ID NO: 20
327 <211> LENGTH: 23
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Synthetic primer
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335 acaggttcgt cgtatccagg gtg 23
337 <210> SEQ ID NO: 21
338 <211> LENGTH: 23
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial sequence
342 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,108

DATE: 02/04/2003

TIME: 13:48:47

Input Set : A:\33834F.txt

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